Scheme for protecting the proposed development outlined in approval ref. AWDM/1531/22 from external traffic noise. All works, which form part of the scheme, will be completed before any part of the noise sensitive development is occupied.

Acoustic Design Statement: The approved conversion development at 74 Brighton Road has been designed with good acoustic principles in mind, as outlined in "Stage 2: Element 1 – Good Acoustic Design Process" within the "ProPG: Planning & Noise" document. Our multi-faceted and integrated approach to achieve optimal acoustic conditions is outlined below which will upgrade the acoustic performance of the existing building significantly. This will deliver the optimum acoustic outcomes for 74 Brighton Road which are proportionate and reasonable.

Glazing:

- **Specification:** The proposed glazing would consist of double-glazed units with a 20mm air gap and a 4mm thick inner and outer pane
- **Acoustic performance:** The proposed glazing would achieve an acoustic reduction of Rw 33dB, which is appropriate for the level of road noise (Table 1, 68dB), and the desired internal noise levels (Table 4, 35dB), outlined in BS8233:2014

Mechanical ventilation system:

- **Model and performance:** The proposed mechanical ventilation system would be a model Vent Axia pure home positive inlet ventilation unit. The system can provide a max flow rate of 150 litres per second. The system would comply with the relevant industry standards for noise levels, with a maximum sound power level of 35.53dB(A).
- **Room supply:** The ventilation system would supply fresh air to all habitable rooms in the house, including the living room, bedrooms, and study.
- **Acoustic treatment:** The ventilation system would be acoustically treated with silencers and acoustic louvres to prevent noise from the system being transmitted into the rooms it supplies. The silencers would be in the supply and extract ducts, and the acoustic louvres would be fitted to the intake and exhaust vents.

Wall sound insulation (new & existing walls):

- Insulation material: Sound resistant plasterboard
- Acoustic performance: sound resistant plasterboard has an acoustic performance of Rw 49dB which will achieve an acoustic reduction appropriate for the level of road noise (Table 1, 68dB), and the desired internal noise levels (Table 4, 35dB), outlined in BS8233:2014

Overall, this proposal is aimed at protecting the development at 74 Brighton Road from external road noise. By incorporating these principles into the design, the proposed scheme will provide a comfortable and healthy indoor environment for the occupants, while reducing the impact of road noise on the interior of the house.